

Linear Equations and Inequalities



X and Y Intercepts

I. Find the x and y intercepts.

$$\begin{array}{l} 2x + y = 3 \\ \text{To find x intercept, let } y = 0. \text{ To find y-intercept, let } x = 0. \\ 2x + 0 = 3 \qquad \qquad \qquad 2 \cdot 0 + y = 3 \\ 2x = 3 \qquad \qquad \qquad y = 3 \quad (0, 3) \\ x = \frac{3}{2} \quad \left(\frac{3}{2}, 0\right) \end{array}$$

1. $3x + 4y = 12$

2. $4x + y = 2$

3. $5x - 4y = 15$

4. $2x - 2y = -4$

5. $3x + y = -9$

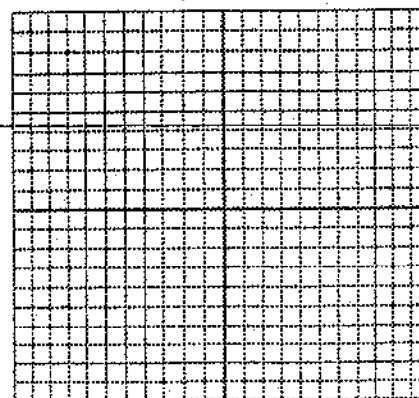
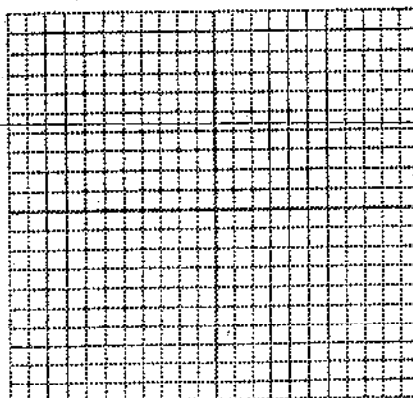
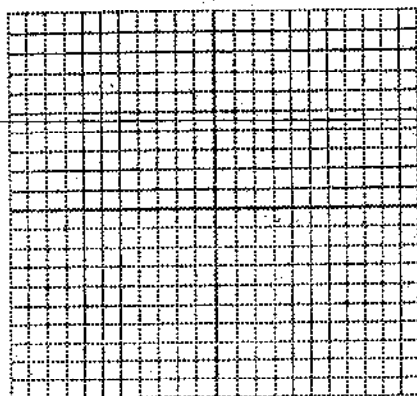
6. $4x - 2y - 8 = 0$

II. Find the x and y intercepts. Then graph.

7. $x + 2y = 5$

8. $2x - 5y = 0$

9. $4x - 3y = -2$



10. $3x + 2y = 6$

11. $5x - 7y = 12$

12. $8x + 10y = 50$

